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Online News Popularity Data Set

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Abstract: This dataset summarizes a heterogeneous set of features about articles published by Mashable in a period of two years. The goal is to predict the number of shares in social networks (popularity).

Data Set Characteristics:	Multivariate	Number of Instances:	39797	Area:	Business
Attribute Characteristics:	Integer, Real	Number of Attributes:	61	Date Donated	2015-05- 31
Associated Tasks:	Classification, Regression	Missing Values?	N/A	Number of Web Hits:	35093

Source:

Kelwin Fernandes (kafc '@' inesctec.pt, kelwinfc '@' gmail.com) - INESC TEC, Porto, Portugal/Universidade do Porto, Portugal.

Pedro Vinagre (pedro vinagre sousa '@' gmail.com) - ALGORITMI Research Centre, Universidade do Minho, Portugal

Paulo Cortez - ALGORITMI Research Centre, Universidade do Minho, Portugal

Pedro Sernadela - Universidade de Aveiro

Data Set Information:

- * The articles were published by Mashable (www.mashable.com) and their content as the rights to reproduce it belongs to them. Hence, this dataset does not share the original content but some statistics associated with it. The original content be publicly accessed and retrieved using the provided urls.
- * Acquisition date: January 8, 2015
- * The estimated relative performance values were estimated by the authors using a Random Forest classifier and a rolling windows as assessment method. See their article for more details on how the relative performance values were set.

Attribute Information:

Number of Attributes: 61 (58 predictive attributes, 2 non-predictive, 1 goal field)

Attribute Information:

0. url: URL of the article (non-predictive)

- 1. timedelta: Days between the article publication and the dataset acquisition (non-predictive)
- 2. n tokens title: Number of words in the title
- 3. n tokens content: Number of words in the content
- 4. n_unique_tokens: Rate of unique words in the content
- 5. n non stop words: Rate of non-stop words in the content
- 6. n_non_stop_unique_tokens: Rate of unique non-stop words in the content
- 7. num_hrefs: Number of links
- 8. num_self_hrefs: Number of links to other articles published by Mashable
- 9. num_imgs: Number of images
- 10. num_videos: Number of videos
- 11. average token length: Average length of the words in the content
- 12. num keywords: Number of keywords in the metadata
- 13. data_channel_is_lifestyle: Is data channel 'Lifestyle'?
- 14. data channel is entertainment: Is data channel 'Entertainment'?
- 15. data channel is bus: Is data channel 'Business'?
- 16. data channel is socmed: Is data channel 'Social Media'?
- 17. data channel is tech: Is data channel 'Tech'?
- 18. data channel is world: Is data channel 'World'?
- 19. kw_min_min: Worst keyword (min. shares)
- 20. kw max min: Worst keyword (max. shares)
- 21. kw_avg_min: Worst keyword (avg. shares)
- 22. kw min max: Best keyword (min. shares)
- 23. kw_max_max: Best keyword (max. shares)
- 24. kw avg max: Best keyword (avg. shares)
- 25. kw min avg: Avg. keyword (min. shares)
- 26. kw max avg: Avg. keyword (max. shares)
- 27. kw avg avg: Avg. keyword (avg. shares)
- 28. self_reference_min_shares: Min. shares of referenced articles in Mashable
- 29. self reference max shares: Max. shares of referenced articles in Mashable
- 30. self_reference_avg_sharess: Avg. shares of referenced articles in Mashable
- 31. weekday_is_monday: Was the article published on a Monday?
- 32. weekday is tuesday: Was the article published on a Tuesday?
- 33. weekday_is_wednesday: Was the article published on a Wednesday?
- 34. weekday_is_thursday: Was the article published on a Thursday?
- 35. weekday is friday: Was the article published on a Friday?
- 36. weekday is saturday: Was the article published on a Saturday?
- 37. weekday is sunday: Was the article published on a Sunday?
- 38. is weekend: Was the article published on the weekend?
- 39. LDA 00: Closeness to LDA topic 0
- 40. LDA 01: Closeness to LDA topic 1
- 41. LDA_02: Closeness to LDA topic 2
- 42. LDA 03: Closeness to LDA topic 3
- 43. LDA 04: Closeness to LDA topic 4
- 44. global subjectivity: Text subjectivity
- 45. global sentiment polarity: Text sentiment polarity
- 46. global rate positive words: Rate of positive words in the content
- 47. global rate negative words: Rate of negative words in the content
- 48. rate positive words: Rate of positive words among non-neutral tokens
- 49. rate negative words: Rate of negative words among non-neutral tokens
- 50. avg positive polarity: Avg. polarity of positive words
- 51. min_positive_polarity: Min. polarity of positive words
- 52. max_positive_polarity: Max. polarity of positive words
- 53. avg_negative_polarity: Avg. polarity of negative words
- 54. min negative polarity: Min. polarity of negative words
- 55. max_negative_polarity: Max. polarity of negative words
- 56. title subjectivity: Title subjectivity
- 57. title_sentiment_polarity: Title polarity
- 58. abs_title_subjectivity: Absolute subjectivity level
- 59. abs_title_sentiment_polarity: Absolute polarity level
- 60. shares: Number of shares (target)

Relevant Papers:

K. Fernandes, P. Vinagre and P. Cortez. A Proactive Intelligent Decision Support System for Predicting the Popularity of Online News. Proceedings of the 17th EPIA 2015 - Portuguese Conference on Artificial Intelligence, September, Coimbra, Portugal.

Citation Request:

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